Please amend the application as follows:

a transmitter unit to transmit said second data.

IN THE CLAIMS:

Please amend the noted claims. For the convenience of the Examiner, all pending claims, whether amended or not, are presented.

1. (First Time Amended) An electronic device for a mask container that is adopted to carry a lithography mask between a first station for first processing and a second station for second processing at a later time point, said electronic device comprising: a receiver unit to receive first data; a memory unit to temporarily store said first data; a processor unit to process an instruction that uses said first data and to provide second data, the second data indicating how the second station uses the lithography mask for second

processing to determine final quality and quantity of said second processing; and

Cancel claim 2.

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- (First Time Amended) The electronic device of claim 21, wherein said transmitter unit transmits said second data to said second station before said second station uses said lithography mask in said second process.
- The electronic device of claim 3, wherein said processor unit processes said first data by combining said first data with an instruction.
- The electronic device of claim 4, wherein said instruction is indicative on how said lithography mask is used in said second process.
- 6. The electronic device of claim 4, wherein said receiver unit also receives said instruction.

- The electronic device of claim 6, wherein said receiver unit receives said first data at a first time point and receives said instruction at a second time point that comes later.
- 8. (First Time Amended) The electronic device of claim 2 1, wherein using said lithography mask in any of said first processing and second processing processes comprises at least one of the following:
 - inserting said lithography mask into said container;
 - -removing said lithography mask from said container;
 - in combination, inserting and removing multiple lithography masks to and from said container;
 - · writing data to said lithography mask;
 - reading data from said lithography mask;
 - exposing a semiconductor wafer by sending electromagnetic radiation through said lithography mask;
 - storing said lithography mask;
 - transporting said lithography mask from one location to another location;
 - manufacturing said lithography mask;
 - · maintaining said lithography mask;
 - modifying said lithography mask by changing exposure properties;
 - damaging said lithography mask, disposing of said lithography mask, recycling said lithography mask;
 - testing and measuring the properties of said lithography mask;
 - assigning an identifier for said lithography mask;
 - · assigning an identifier for a plurality of lithography masks; and
 - transferring information that relates to said lithography mask from a first electronic device in a first container to a further electronic device in a further container.
 - The electronic device of claim 1, wherein said receiver unit, said memory unit, said processor unit, and said transmitter unit are coupled by a bus.

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 The electronic device of claim 1, wherein said receiver unit and said transmitter unit are implemented as a transceiver unit.

- 11. The electronic device of claim 10, wherein said transceiver unit is a wireless transceiver.
- The electronic device of claim 11, wherein said wireless transceiver is a radio frequency transceiver.
- The electronic device of claim 11, wherein said wireless transceiver is an infra-red transceiver.
- 14. The electronic device of claim 1, wherein said memory unit is a non-volatile memory.
- 15. The electronic device of claim 14, wherein said non-volatile memory is an EEPROM.
- 16. The electronic device of claim 14, wherein said non-volatile memory is an SRAM.
- 17. (First Time Amended) The electronic device of claim 1 comprising a power supply coupled to the receiver unit, the memory unit, the processor and the transmitter unit that is implemented by at least a component of the following group: battery, photovoltaic element, thermal converter, and inductive power converter.
- (First Time Amended) The electronic device of claim 1 that wherein the electronic device is permanently attached to said mask container by an adhesive.
- The electronic device of claim 1, wherein said processor unit and said memory unit are implemented on a single monolithic chip.
- 20. (First Time Amended) The electronic device of claim ± 10, wherein said transceiver unit communicates with a further electronic device at a further lithography mask container and with further stations.

21. (First Time Amended) The electronic device of claim 1, wherein for a further lithography mask carried in said mask container said second data is indicative on how a third station uses said further lithography mask a third process for third processing.

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22. (First Time Amended) A method for operating a manufacturing system for semiconductor wafers, said manufacturing system employing a plurality of lithography masks that are carried in a plurality of mask containers, said method comprising the following steps: exchanging first data relating to previous processing of the semiconductor wafers using a first predetermined process between an electronic device attached to the mask container and a host computer system; and

using a lithography mask in a station <u>using a second predetermined process in said</u>

predetermined process by selectively modifying the second predetermined process in response to second data created by the electronic device using the first data, wherein using comprises at least one step out of the group of the following steps:

- inserting said lithography mask into said container;
- · removing said lithography mask from said container;
- in combination, inserting and removing multiple lithography masks to and from said container;
- writing data to said lithography mask;
- reading data from said lithography mask;
- exposing a semiconductor wafer by sending electromagnetic radiation through said lithography mask;
- storing said lithography mask;
- transporting said lithography mask from one location to another location;
- manufacturing said lithography mask;
- maintaining said lithography mask;
- modifying said lithography mask by changing exposure properties;
- damaging said lithography mask, disposing of said lithography mask, recycling said lithography mask;
- testing and measuring the properties of said lithography mask;

- assigning an identifier for said lithography mask;
- · assigning an identifier for a plurality of lithography masks; and
- transferring information that relates to said lithography mask from a first electronic device in a first container to a further electronic device in a further container.
- 23. (First Time Amended) The method of claim 22 wherein said step of exchanging the first data <u>further</u> comprises receiving data by said electronic device, transmitting data from said electronic device, and processing data by said electronic device.
- 24. (First Time Amended) A method to operate a wafer manufacturing system that uses a lithography mask container having an electronic device attached thereto, said lithography mask container to carry a mask from a first station to a second station, said method comprising the following steps:

by said first station, applying a first process using said mask;

by said first station, sending 302 first data that indicates quality and quantity of said first process from said first station to said electronic device and, by said electronic device, receiving said first data;

by said electronic device, based on said first data, processing an instruction that indicates expected quality and quantity of a second process to provide second data that determines final quality and quantity of said second process;

by said electronic device, transmitting said second data to said second station; and by said second station, applying said second process using said mask.

